

Report of Analysis

Client:	PSEG	Date Collected:	11/08/24
Project:	Saddle Brook Substation	Date Received:	11/08/24
Client Sample ID:	TP-2	SDG No.:	P4796
Lab Sample ID:	P4796-03	Matrix:	Solid
Analytical Method:	NJEPH	% Solid:	95.9
Sample Wt/Vol:	30.07	Units:	g
Soil Aliquot Vol:		Final Vol:	2000 uL
Prep Method :		Test:	EPH_NF

Prep Date :	Date Analyzed :	Prep Batch ID
11/10/24 08:35	11/11/24 16:12	PB164844

Datafile

CAS Number	Parameter	Conc.	Qualifier	Dilution	MDL	LOQ / CRQL	Units(Dry Weight)	
TARGETS								
Aliphatic C28-C40	Aliphatic C28-C40	6.61		1	1.87	2.08	mg/kg	FE051150.D
Aliphatic C9-C28	Aliphatic C9-C28	1.79	U	1	1.79	4.16	mg/kg	FE051150.D
Total AliphaticEPH	Total AliphaticEPH	6.61			3.66	6.24	mg/kg	
Total EPH	Total EPH	6.61			3.66	6.24	mg/kg	

* As samples are not fractionated, all aliphatic and aromatic carbon compounds in the C9-C40 carbon range are calculated against the aliphatic calibration curve, and reported as Aliphatic EPH. Therefore, the aliphatic C9-C40 concentration for the sample is reported as the Total EPH.

U = Not Detected

LOQ = Limit of Quantitation

MDL = Method Detection Limit

LOD = Limit of Detection

E = Value Exceeds Calibration Range

Q = indicates LCS control criteria did not meet requirements

J = Estimated Value

B = Analyte Found in Associated Method Blank

N = Presumptive Evidence of a Compound

* = Values outside of QC limits

D = Dilution

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Prep Method :			

File ID :	Dilution:	Prep Date :	Date Analyzed :	Prep Batch ID
FE051150.D	1	11/10/24	11/11/24	PB164844

CAS Number	Parameter	Conc.	Qualifier	MDL	LOQ / CRQL	Units
TARGETS						
Aliphatic C9-C28	Aliphatic C9-C28	0.000	U	1.79	4.16	mg/kg
Aliphatic C28-C40	Aliphatic C28-C40	6.61		1.87	2.08	mg/kg
SURROGATES						
3383-33-2	1-chlorooctadecane (SURR)	38.2		40 - 140	76%	SPK: 50
84-15-1	ortho-Terphenyl (SURR)	38.0		40 - 140	76%	SPK: 50

Quantitation Report For Aliphatic EPH Range.

Lab Sample ID:	P4796-03	Acq On:	11 Nov 2024 16:12
Client Sample ID:	TP-2	Operator:	YP\AJ
Data file:	FE051150.D	Misc:	
Instrument:	FID_E	ALS Vial:	16
Dilution Factor:	1	Sample Multiplier:	1.00

Compound	R.T.		Response	Conc	highest_standard	Units
Aliphatic EPH	3.140	22.059	15755192	120.77		ug/ml
ortho-Terphenyl (SURR)	11.854	11.854	5710882	38.05		ug/ml
1-chlorooctadecane (SURR)	13.287	13.287	4340660	38.23		ug/ml
Aliphatic C9-C12	3.140	6.760	321820	2.3	300	ug/ml
Aliphatic C12-C16	6.761	10.193	656504	4.668	200	ug/ml
Aliphatic C16-C21	10.194	13.553	1036113	7.521	300	ug/ml
Aliphatic C21-C28	13.554	17.209	1474224	11.006	400	ug/ml
Aliphatic C28-C40	17.210	22.059	12266531	95.275	600	ug/ml
Aliphatic C9-C28	3.140	17.209	3488661	25.495	1200	ug/ml